

Water Sciences Laboratory
Analyte/Protocol Price List
2022



**Nebraska
Water Center**
 Daugherty Water for Food Global Institute

Nebraska Water Center, a part of the
Robert B. Daugherty Water for Food Global Institute at the University of Nebraska
 e: dsnow1.unl.edu | p: 1 402.472.7539 | f: 1 402.472.9599 | c: 1 402.304.3748

Standard Methods :: Solids

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>Total Kjeldahl nitrogen - solids Protocol ID: 02_07_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: Seal Analytical "EPA 111A Total Kjeldahl Nitrogen-N (copper catalyst) in Drinking, Ground, and Surface Waters, and Domestic and Industrial Wastes".</p>	Total Kjeldahl Nitrogen	0.5 µg-N/g	\$28.90	\$23.12
<p>Total Kjeldahl phosphorus - solids Protocol ID: 02_08_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Frozen Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: (1974), "EPA 365.4 Phosphorous, Total (Colorimetric, Automated, Block Digester AA II)".</p>	Total Kjeldahl P	0.5 µg-P/g	\$28.90	\$23.12

Turnaround times are subject to existing sample queues Reporting Limits are subject to verification

Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>Total organic carbon in soil Protocol ID: 04_06_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: Pending Preservation: Frozen Holding Time: 60 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: Islam, K. R., & Weil, R. R. (1998), "A rapid microwave digestion method for colorimetric measurement of soil organic carbon.", <i>Communications in Soil Science & Plant Analysis</i> 29(15-16), 2269-2284.</p>	TOC	0.5 µg/g	\$23.10	\$18.48
<p>Extractable organic carbon from soil Protocol ID: 05_01_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 5 gm Preservation: Add sulfuric acid to pH < 2, Cool, < 6°C Holding Time: 28 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: "Standard Methods 5310 - Total Organic Carbon",</p>	DOC	0.5 µg C/g	\$23.10	\$18.48
<p>Nitrate-N in soil (KCl extraction) Protocol ID: 13_02_02</p> <p>Sample Container: 125 mL wide mouth amber glass bottle Sample Size: 50 gm Preservation: Add sulfuric acid to pH < 2, Cool, < 6°C Holding Time: 90 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>References: Spalding, RF, Kitchen L. (1988), "Spalding, Roy F., and Lisa A. Kitchen. "Nitrate in the intermediate vadose zone beneath irrigated cropland", <i>Groundwater Monitoring & Remediation</i> 8(2), 89-95. (1993), "Nitrate-N movement in a fine-textured vadose zone", <i>Journal Soil Water Conservation</i> 48(4), 350-354.</p>	Moisture NH4N NO3N pH Soil Conductivity	0.1 µg/g 0.1 µg/g	\$25.20	\$20.16

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Protocol	Analyte	Reporting Limit	Protocol Cost	NU Cost (20% discount)
<p>Particle size Protocol ID: 17_09_01</p> <p>Sample Container: 125 mL polyethylene bottle Sample Size: Pending Preservation: Pending Holding Time: 30 Days Estimated Turnaround Time: 6-8 Weeks</p>	<p>Clay Sand Silt</p>	<p>Pending Pending Pending</p>	<p>\$11.60</p>	<p>\$9.28</p>
<p>Dissolved elements in soil by ICP-OES - 6010D Protocol ID: 21_01_02</p> <p>Sample Container: 125 mL polyethylene bottle Sample Size: 50 g Preservation: Add nitric acid to pH < 2, Cool, < 6°C Holding Time: 28 Days Estimated Turnaround Time: 6-8 Weeks</p> <p>Reference: (2018), "EPA 6010D Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES)".</p>	<p>Calcium Iron Magnesium Manganese Potassium Sodium</p>	<p>0.01 µg/g 0.01 µg/g 0.01 µg/g 0.01 µg/g 0.01 µg/g 0.01 µg/g</p>	<p>\$30.00</p>	<p>\$24.00</p>

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